

# Iowa Influenza Surveillance Network (IISN)

# Influenza-like Illness (ILI) and Other Respiratory Viruses

#### **Weekly Activity Report**

# For the week ending October 25, 2014 - Week 43

All data presented in this report are provisional and may change as additional reports are received



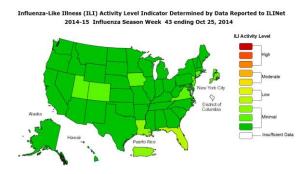
0.27 % (baseline 1.7%)
1.9% (7/359)
1.4% (1/69)
1.96%
0
1/2,908 inpatients surveyed
0

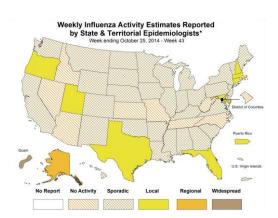
Iowa Influenza Geographic Spread <sup>2</sup>						
No Activity						
Sporadic						
Local						
Regional						
Widespread						
<sup>2</sup> This is based on CDC's activity estimates definition www.cdc.gov/flu/weekly/overview.htm						

#### **lowa statewide activity summary:**

Influenza activity in Iowa remains low. For this reporting week, the State Hygienic Laboratory confirmed three Flu A (subtype pending) cases and one Flu B. The proportion of outpatient visits due to influenza-like illness (ILI) was 0.27 percent which is well below the regional baseline. One influenza-associated hospitalization was reported from sentinel hospitals. No schools reported 10 percent or greater absenteeism due to illness. In addition, seven cases of adenovirus, two cases of parainfluenza virus type 2, one case of parainfluenza 3, and 40 cases of rhinovirus/enterovirus were reported to IDPH.

# National activity summary - (CDC):





Synopsis: During week 43 (October 19-25, 2014), influenza activity was low in the United States.

**Viral Surveillance**: Of 7,449 specimens tested and reported by U.S. World Health Organization (WHO) and National Respiratory and Enteric Virus Surveillance System (NREVSS) collaborating laboratories during week 43, 320 (4.3%) were positive for influenza.

**Pneumonia and Influenza Mortality**: The proportion of deaths attributed to pneumonia and influenza (P&I) was below the epidemic threshold.

Influenza-associated Pediatric Deaths: No influenza-associated pediatric deaths were reported.

**Outpatient Illness Surveillance**: The proportion of outpatient visits for influenza-like illness (ILI) was 1.4%, which is below the national baseline of 2.0%. All 10 regions reported ILI below region-specific baseline levels. One state experienced low ILI activity; Puerto Rico, New York City and 49 states experienced minimal ILI activity; and the District of Columbia had insufficient data.

**Geographic Spread of Influenza**: The geographic spread of influenza in Guam was reported as widespread; one state reported regional activity; Puerto Rico and eight states reported local activity; the U.S. Virgin Islands and 32 states reported sporadic activity; and the District of Columbia and nine states reported no influenza activity.

Detailed information can be found online at www.cdc.gov/flu/weekly/

### **International activity summary - (WHO):**

Globally, influenza activity remained low, with the exception of some tropical countries in the Americas and some Pacific Islands. Detailed information can be found online at www.who.int/influenza/surveillance monitoring/updates/latest update GIP surveillance/en/.

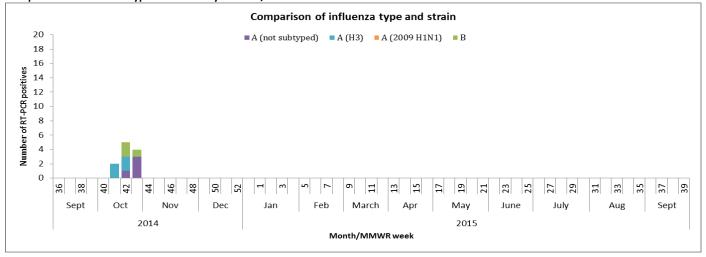
#### **Laboratory surveillance program:**

Only cases of Iowa residents are included

The State Hygienic Laboratory (SHL) is the primary lab for influenza testing and reporting in Iowa. SHL reports the number of tests performed and the type and strain of positive tests to the influenza surveillance network several times every week. In addition, SHL surveys clinical and reference labs for the number of rapid-antigen tests performed and number positive weekly. This report also includes the positive non-influenza virus tests reported from SHL, the Dunes Medical Laboratories at Mercy Medical Center in Sioux City, and Iowa Methodist Medical Center in Des Moines.

2009 A (H3)	CURRENT W Flu A A(H3N2)	/EEK - MMW	R WEEK 43				VEAD TO	DATE (0/1/1	4 DDECENIE							
2009 (H3)					CURRENT WEEK - MMWR WEEK 43					YEAR TO DATE (9/1/14 – PRESENT WEEK)						
009 A (H3)	V(H3N3)			Equiv/		Flu A										
	A(H3NZ)	Subtype		Indeter		A (2009	A (H3)	A(H3N2)	Subtype	Flu B	Neg					
N1)	variant	Pending	Flu B	minate	Neg	H1N1)	A (113)	variant	Pending		<u> </u>					
0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	1(20%)	0(0%)	1(17%)	0(0%)	0(0%)	0(0%)	8(13%)					
0(0%)	0(0%)	1(33%)	0(0%)	0(0%)	1(20%)	0(0%)	3(50%)	0(0%)	1(33%)	0(0%)	7(11%)					
0(0%)	0(0%)	1(33%)	0(0%)	0(0%)	1(20%)	0(0%)	0(0%)	0(0%)	1(33%)	0(0%)	20(32%)					
0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	2(40%)	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	16(25%)					
0(0%)	0(0%)	1(33%)	1(100%)	0(0%)	0(0%)	0(0%)	2(33%)	0(0%)	1(33%)	3(100%)	8(13%)					
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0 0	0	3	1	0	5	0	6	0	3	3	63					
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Comparison of influenza type and strain by MMWR/calendar week

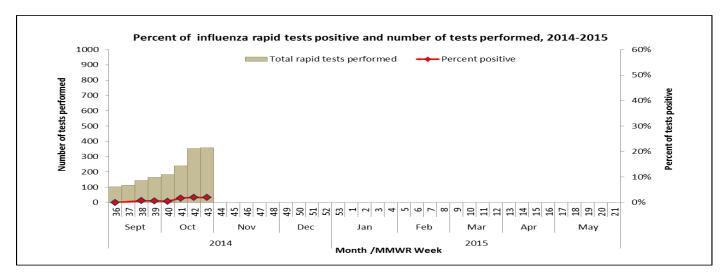


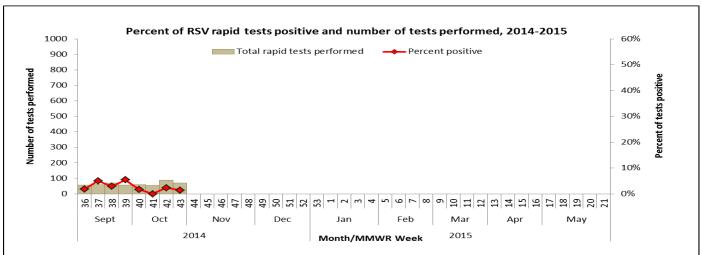
## Rapid influenza and RSV test surveillance:

The State Hygienic Laboratory (SHL) runs a weekly web-based survey program where laboratorians report the number of influenza and respiratory syncytial virus (RSV) rapid tests performed and the number of tests positive. This table includes only the number of patients tested for influenza or RSV at laboratory surveillance sites throughout the state. This table does not provide case counts.

REGION*		RAPID	ANTIGEN INFLUE	RAPID ANTIGEN RSV TESTS				
REGION	Tested	Flu A	Flu B	Undefined	% Positive	Tested	Positive	% Positive
Region 1	69	0	0	0	0	11	0	0
Region 2	15	0	0	0	0	4	0	0
Region 3	40	2	0	0	5.0	8	0	0
Region 4	32	0	0	0	0	4	0	0
Region 5	43	0	0	0	0	8	0	0
Region 6	160	3	2	0	3.1	34	1	2.9
Total	359	5	2	0	1.9	69	1	1.4

\*Region 1- Boone, Calhoun, Carroll, Dallas, Greene, Grundy, Hamilton, Hardin, Jasper, Marshall, Polk, Poweshiek, Story, Tama, Warren, Webster; Region 2- Allamakee, Bremer, Butler, Cerro Gordo, Chickasaw, Emmet, Fayette, Floyd, Franklin, Hancock, Howard, Humboldt, Kossuth, Mitchell, Winnebago, Winneshiek, Worth, Wright; Region 3- Buena Vista, Cherokee, Clay, Crawford, Dickinson, Ida, Lyon, Monona, O'Brien, Osceola, Palo Alto, Plymouth, Pocahontas, Sac, Sioux, Woodbury; Region 4- Adair Adams, Audubon, Cass, Clarke, Decatur, Fremont, Guthrie, Harrison, Madison, Mills, Montgomery, Page, Polagmoso, Gasty, Clarke, Deartur, Fremont, Guthrie, Harrison, Madison, Mills, Montgomery, Page, Polagmoso, Davis, Des Molines, Henry, Jefferson, Keokuk, Lee, Louisa, Lucas, Mahaska, Marion, Monroe, Muscatine, Van Buren, Wapello, Washington, Wayne; Region 6- Benton, Black Hawk, Buchanan, Cedar, Clayton, Clinton, Delaware, Dubuque, Iowa, Jackson, Johnson, Jones, Linn, Scott.





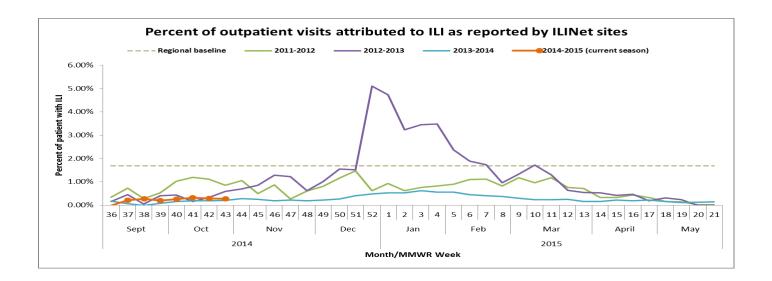
### Non-influenza respiratory virus:

Table 3: Number of positive results for non-influenza respiratory virus isolated by Mercy Dunes in Sioux City and Iowa Methodist Medical Center							
Viruses	CURRENT WEEK	CUMULATIVE (9/1/14 – PRESENT WEEK)					
Adenovirus	7	32					
Parainfluenza Virus Type 1	0	0					
Parainfluenza Virus Type 2	2	27					
Parainfluenza Virus Type 3	1	3					
Parainfluenza Virus Type 4	0	1					
Rhinovirus/Enterovirus	40	272					
Respiratory syncytial virus (RSV)	0	2					
Human metapneumovirus (hMPV)	0	2					
Total	50	339					

### Outpatient health care provider surveillance program (ILINet):

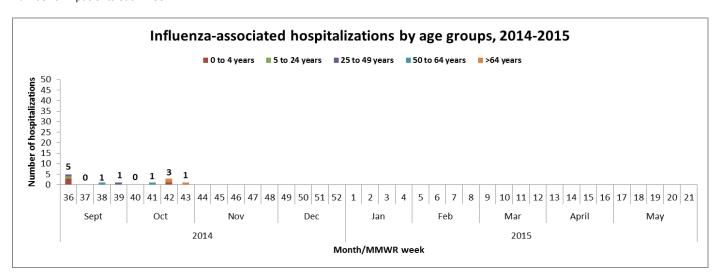
Outpatient health care providers who participate in the ILINet (a national influenza surveillance program) report the number of patients seen with influenza-like illness and the total number of patient visits each week. This system is a key part of lowa's influenza surveillance. Iowa health care providers interested in joining this surveillance program should contact Kemi Oni at 515-725-2136 or <a href="mailto:oluwakemi.oni@idph.iowa.gov">oluwakemi.oni@idph.iowa.gov</a> for more information.

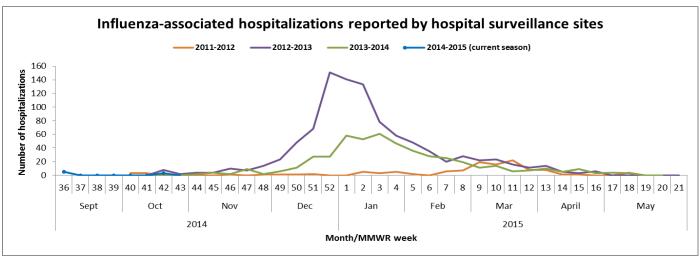
Table 4: Outpatient visits for influenza-like illness (ILI) – past 3 weeks							
Week	%ILI	Total ILI	Age 0-4	Age 5-24	Age 25-49	Age 50-64	Age >64
Week 41, ending Oct 11	0.32	102	24	62	10	4	2
Week 42, ending Oct 18	0.28	95	21	49	14	4	7
Week 43, ending Oct 25	0.27	87	25	44	12	4	2



## **Influenza-associated hospitalizations:**

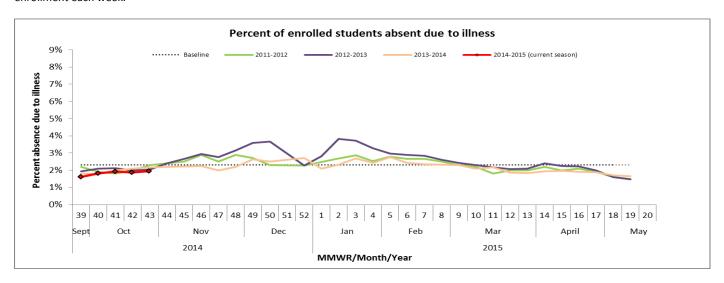
Sentinel hospitals that participate in IISN voluntarily track and report the number of influenza-associated hospitalizations and the total number of inpatients each week.





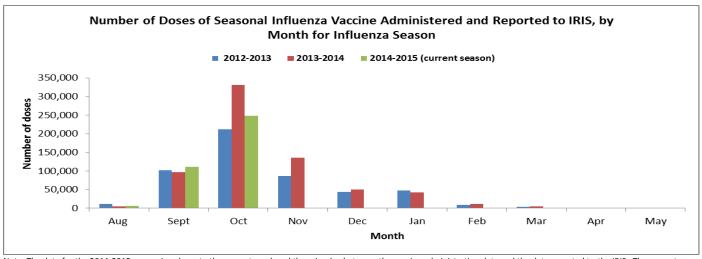
#### School surveillance program:

Sentinel schools that participate in IISN voluntarily track and report absence due to all illness (including non-influenza illnesses) and the total enrollment each week.



# Seasonal influenza vaccination:

Seasonal influenza vaccination data in iowa is based on doses reported to the Iowa Immunization Registry Information System (IRIS). IRIS is a confidential, computerized, population-based system that tracks immunization for children, adolescents and adults who are seen in a variety of public and private healthcare provider sites throught the state of Iowa. For more information on the immunization data, contact Kim Tichy, IRIS coordinator at 515-281-4288 or <a href="mailto:kimberly.tichy@idph.iowa.gov">kimberly.tichy@idph.iowa.gov</a>



Note: The data for the 2014-2015 season is only up to the current week and there is a lag between the vaccine administration date and the date reported to the IRIS. The current season's data will be adjusted as additional data is received.

#### Other resources:

#### Vaccine:

Influenza vaccine recommendation: http://www.idph.state.ia.us/ImmTB/Immunization.aspx?prog=Imm&pg=Flu

CDC vaccine information: <a href="http://www.cdc.gov/flu/faq/flu-vaccine-types.htm">http://www.cdc.gov/flu/faq/flu-vaccine-types.htm</a>

What to know about flu: www.flu.gov

#### Neighboring states' influenza inforamtion:

Minnesota: http://www.health.state.mn.us/divs/idepc/diseases/flu/stats/index.html

Missouri: http://health.mo.gov/living/healthcondiseases/communicable/influenza/reports.php

South Dakota: http://doh.sd.gov/diseases/infectious/flu/

Wisconsin: www.dhs.wisconsin.gov/communicable/influenza/surveillance.htm

Google Flu Trends: http://www.google.org/flutrends/us/#US-IA